

ABSTRACT OF THE DISCLOSURE

The invention relates to an intracavity-doubled laser device, comprising a pumping laser-diode, a Nd:YAG amplifying medium stimulated by a laser beam with a fundamental wavelength emitted by the laser diode, the output face of said amplifying medium being cut at the Brewster angle for said fundamental wavelength and a birefringent frequency-doubling KNbO₃ crystal. The device further comprises an isotropic medium (3), inserted between the input face (8) of the birefringent crystal, the amplifying medium (2) and the birefringent crystal (4), being fixed to each other such as to provide a monolithic resonant cavity. Furthermore, the crystal axis "c" of the birefringent crystal includes a non-zero angle $\angle c$ with relation to the orthogonal direction of polarisation of the fundamental wave defined by the Brewster surface.